HUNTERS POINT
SSIC 5000-33B

MONTHLY LANDFILL GAS MONITORING LETTER REPORT FOR JANUARY 2020, POST-REMOVAL ACTION PARCEL E-2, INDUSTRIAL LANDFILL HUNTERS POINT SHIPYARD SAN FRANCISCO COUNTY, CALIFORNIA

02/03/2020

INYA INCORPORATED

NOTIFICATION: This Report Excludes a Page Which Requires Further Evaluation for Freedom of Information Act Exemption(s) and will be Released or Withheld at a Later Date

Page 5

Approved for public release; distribution is unlimited

3 February 2020

Ms. Leslie A. Howard, Remedial Project Manager, HPNS
Base Realignment and Closure Program Management Office, West
33000 Nixie Way, Bldg. 50
San Diego, California 92147

Subject: Monthly Landfill Gas Monitoring Letter Report for January 2020
Post-Removal Action, Parcel E-2 Industrial Landfill
Hunters Point Naval Shipyard, San Francisco, California

Dear Ms. Howard,

The monthly landfill gas monitoring event at Parcel E-2 was performed on Thursday, January 16, 2020. Monitoring was performed using a GEM-2000 landfill gas analyzer and a photo-ionization detector at gas monitoring probe locations GMP08A, GMP23 and GMP24. GMP08A is located along the fence line (east side) of the perimeter of the landfill while GMP23 and GMP24 are located within the UCSF compound as shown on Figure 1.

The results for the routine monthly monitoring event were as follows:

Methane

- Methane was detected by the field monitoring equipment only in the gas sample extracted from GMP24 at 1.5% by volume in air.
- Methane was not detected in the gas samples from GMP08A and GMP23.

Per the project's Final Interim Landfill Gas Monitoring and Control Plan[1], the methane action levels are as follows:

- The HPNS action level for GMPs along the fence line, in the UCSF compound, and along Crisp Ave. is 2.5% by volume in air.
- The regulatory action level for the concentration of methane gas migrating from the landfill must not exceed 5% by volume in air at the property boundary or an alternative boundary approved in accordance with 27 CCR §20925.

Since all methane readings were below the action levels during this monitoring period, no further action is required.

[1] Tetra Tech, 2004. Final Interim Landfill Gas Monitoring and Control Plan, Parcel E, Industrial Landfill, Hunters Point Shipyard, San Francisco, California. August 13.

NMOCs

- NMOCs were detected by the field monitoring equipment in samples from GMP23 and GMP24 at readings of 0.8 ppmv and 0.3 ppmv respectively.
- NMOCs were not detected in the sample extracted fromGMP08A

Per the project's Final Interim Landfill Gas Monitoring and Control Plan (Tetra Tech, 2004), the NMOC action level at these locations is as follows:

- 500 ppmv in GMPs

Since all NMOC readings were below this action level during the monitoring period, no further action is required.

Monitoring-Related Notes

- The GEM-2000 landfill gas analyzer was checked for calibration before and after this monitoring event

The above monitoring information will be included in the Quarterly Report for the first quarter of calendar year 2020, to be prepared in April 2020.

The field data (Table 1) and a map showing monitoring point locations for this project (Figure 1) are included in this report. Please let me know if you have comments or questions about this monitoring event or the data included herein. You can reach me at (909) 782-8545 or by e-mail at mary.scheider@inyainc.com.

Sincerely,

Mary Schneider
Inya Inc., Program Manager

Enclosures: Table 1. Landfill Gas Monitoring Log
Figure 1 Site Map and Landfill Gas Monitoring Locations

Table 1. Landfill Gas Monitoring Log

Weather: cool, windy

Name: Thomas Stuart

Sampling Location						GEM-2000				PID			
Location ID	Description (for example, GMP, Well, Carbon, Hydrosil)	Date	Time	Temp (°F)	Barometric Pressure (in. Hg)	Methane (%)	CO_2 (%)	O_2 (%)	Percent of LEL	Non-Methane VOCs (ppmv)	Bckgrd. NMOCs (ppmv)	Soil Gas Pressure (in. H_20)	Notes (e.g., active extraction, flow rate, probe damage, instrument issues)
GMP08A	Gas Monitoring Probe	1/16/20	8:38	58	30.34	0.0	3.4	0.7	0.0	0.0	0.0	0.0	
GMP23	Gas Monitoring Probe	1/16/20	8:50	50	30.34	0.0	8.9	20.3	0.0	0.8	0.0	0.0	
GMP24	Gas Monitoring Probe	1/16/20	9:03	51	30.34	1.5	13.9	0.8	34.0	0.3	0.0	0.0	

Legend:

%: percent by volume in air
°F: degrees Fahrenheit
CO_2: carbon dioxide
GEM-2000: CES-LANDTEC landfill gas meter
in. Hg: inches of mercury
in. H_20: inches of water
LEL: lower explosive limit
NA: not applicable
NMOC: non-methane organic compound
O_2: oxygen
PID: photoionization detector
ppmv: parts per million by volume
VOC: volatile organic compound

NOTIFICATION: THIS PAGE HAS BEEN REMOVED FOR FURTHER EVALUATION FOR FREEDOM OF INFORMATION ACT EXEMPTIONS AND WILL BE RELEASED OR WITHHELD AT A LATER DATE